

AMENDMENTS TO THE CLAIMS

This listing of claims replaces all prior versions and listings of claims in the application:

Claim 1 (currently amended): An optical pickup device comprising ~~comprises at least~~:

a housing having an attachment position; and

a beam splitter fixed to ~~a beam splitter~~ the attachment position of the housing by an adhesive so that ~~a splitter~~ an optical axis of the beam splitter coincides with an ~~matches a design~~ optical axis of the optical pickup device,

wherein the housing has a ~~temporary positioning projection~~ for ~~temporarily positioning~~ the beam splitter ~~in/around~~ at the beam splitter attachment position by abutting the beam splitter, and in the ~~beam splitter attachment position~~, a plurality of through holes are defined suitable for inserting therein a plurality of projection sticks ~~which are movable toward/apart from an attachment surface of the beam splitter while for positioning the beam splitter is abutting the temporarily positioning projection and the adhesive is uncured.~~

Claim 2 (currently amended): The device of claim 1, wherein the housing defines at the ~~has, in its beam splitter attachment position~~, an adhesive housing recess for ~~housing an~~ the adhesive and a reserve recess ~~communicated~~ communicating with the adhesive housing recess for receiving an ~~uncured~~ adhesive overflowed from the housing recess ~~by being pressed by the beam splitter.~~

Claim 3 (currently amended): The device of claim 2, wherein the adhesive housing recess is disposed ~~almost~~ about in the center of the ~~beam splitter attachment position~~ of the housing, and the through holes are disposed around the adhesive housing recess.

Claim 4 (currently amended): The device of claim 1, further ~~comprises~~ comprising a diffraction mirror attached to the housing ~~for reflecting and adapted to reflect~~ light from the beam splitter.

Claim 5 (currently amended): The device of claim 3, wherein the through holes comprise three through holes ~~at provided in positions of~~ three vertexes of an almost approximately equilateral triangle around the adhesive housing recess ~~in the beam splitter attachment position of the housing.~~

Claim 6 (currently amended): The device of claim 3, wherein the through holes comprise two through holes ~~at provided in positions of~~ two vertexes of an almost approximately equilateral triangle around the adhesive housing recess ~~in the beam splitter attachment position of the housing,~~ and a projection for supporting the ~~attachment surface of the beam splitter is provided at in a position of~~ the remaining ~~one~~ vertex of the equilateral triangle.

Claim 7 (currently amended): A method of assembling ~~the~~ an optical pickup device, ~~comprising of claim 1 comprises the steps of:~~

(A) applying ~~an~~ adhesive to a beam splitter attachment position of a housing of an optical pickup device;

(B) mounting a ~~the~~ beam splitter ~~in a temporarily positioned state~~ at the beam splitter attachment position via the adhesive; and

~~(C1)~~ (C) adjusting an angle of an attachment surface of the beam splitter while in a state ~~where~~ the adhesive is uncured,

wherein in (C) ~~the step (C1)~~, the angle of the attachment surface of the beam splitter is adjusted so that ~~a beam splitter~~ an optical axis of the beam splitter coincides with an ~~matches a design optical axis of the optical pickup device~~ by inserting projection sticks in through holes defined ~~formed~~ in the beam splitter attachment position ~~of the housing~~ and moving ~~each of the~~ projection sticks ~~toward/apart from~~ relative to the attachment surface while detecting light projected to the beam splitter and reflected by a reflection surface of the beam splitter.

Claim 8 (currently amended): A method of assembling ~~the~~an optical pickup device ~~comprising of claim 4 comprises the steps of:~~

(A) applying ~~an~~ adhesive to a beam splitter attachment position of a housing of an optical pickup device;

(B) mounting a beam splitter ~~in a temporary positioned state~~ at the beam splitter attachment position via the adhesive; and

~~(C2)~~(C) adjusting an angle of an attachment surface of the beam splitter while in a state where the adhesive is uncured,

wherein in (C)~~the step (C2)~~, the angle of the attachment surface of the beam splitter is adjusted so that ~~a beam splitter~~ an optical axis of the beam splitter coincides with an matches a design optical axis of the optical pickup device by inserting projection sticks in through holes defined ~~formed~~ in the beam splitter attachment position of the housing and moving each of the projection sticks ~~toward/apart from~~ relative to the attachment surface while allowing light projected to and reflected from a diffraction mirror to enter the beam splitter, allowing the light reflected by a reflection surface of the beam splitter to be emitted to a reflection mirror, allowing backlight reflected by the reflection mirror to be reflected by the beam splitter, allowing the light reflected by the beam splitter to be reflected by the diffraction mirror and detecting the light reflected by the diffraction mirror.

Claim 9 (currently amended): An apparatus for assembling ~~the~~an optical pickup device, ~~comprising of claim 1 comprises:~~

a supporting part adapted to support ~~for supporting~~ a housing of an optical pickup device;

a projector adapted to project ~~for projecting~~ light to a beam splitter which is ~~mounted in a temporary positioned state~~ at a beam splitter attachment position of the housing via an adhesive;

a reflected light detector ~~for detecting~~ adapted to detect light projected from the projector and reflected by a reflection surface of the beam splitter; and

a beam splitter angle adjusting unit adapted to adjust ~~for adjusting~~ the angle of an attachment surface of the beam splitter while in a state where the adhesive is uncured,

wherein the beam splitter angle adjusting unit has projection sticks inserted in through holes defined ~~formed~~ in the beam splitter attachment position of the housing and ~~move toward/apart from~~ moved relative to the attachment surface of the beam splitter, for adjusting the angle of the attachment surface so that ~~a beam splitter~~ an optical axis of the beam splitter coincides with an matches a design optical axis of the optical pickup device.

Claim 10 (currently amended): An apparatus for assembling ~~the~~ an optical pickup device ~~comprising of claim 4~~ comprises:

a supporting unit adapted to support ~~for supporting~~ a housing of an optical pickup device;

a projector adapted to project ~~for projecting~~ light via a diffraction mirror to a beam splitter ~~mounted in a temporary~~ positioned state at a beam splitter attachment position of the housing via an adhesive;

a reflection mirror adapted to reflect ~~for reflecting~~ toward the beam splitter light projected from the projector, diffracted by the diffraction mirror, incident on the beam splitter and reflected by a reflection surface of the beam splitter;

a backlight detector provided ~~integrally~~ with the projector and adapted to detect ~~for detecting~~ backlight transmitted from the reflection mirror via the beam splitter and the diffraction mirror; and

a beam splitter angle adjusting unit adapted to adjust ~~for adjusting~~ the angle of an attachment surface of the beam splitter ~~in a state where~~ while the adhesive is uncured,

wherein the beam splitter angle adjusting unit has projection sticks inserted in through holes defined ~~formed~~ in the beam splitter attachment position of the housing and moved relative to ~~move toward/apart from~~ the attachment surface of the beam splitter, for adjusting the angle of the attachment surface so that ~~a beam splitter~~ an optical axis of the beam splitter coincides with an ~~matches a design optical axis of the optical pickup device.~~

Claim 11 (original): The apparatus of claim 9, wherein the projection sticks each has a rounded apex that abuts the attachment surface of the beam splitter.

Claim 12 (new): A method claim directed to a method similar in several respects to that of claim 1 and distinguishes only the references for at least the same reasons as does claim 1 as pointed out above.